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·	Application No.	Applicant(s)	- 11
	10/638,402	IKEDA, YUTAKA	
Notice of Allowability	Examiner	Art Unit	
	Ronald W. Leja	2836	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is:	n this application. If not include unication will be mailed in due	ed course. THIS
1. This communication is responsive to <u>8/12/2003</u> .			
2. The allowed claim(s) is/are <u>1-15</u> .			
3. \boxtimes The drawings filed on <u>12 August 2003</u> are accepted by the	Examiner.		
4.	been received. been received in Application cuments have been received of this communication to file ENT of this application. Itted. Note the attached EX as reason(s) why the oath of the besubmitted. on's Patent Drawing Review Amendment / Comment of the header according to 37 CF sit of BIOLOGICAL MAT	on No d in this national stage applicate a reply complying with the recommendation and the recommendation is deficient. W (PTO-948) attached In the Office action of the drawings in the front (not the FR 1.121(d). ERIAL must be submitted. No	quirements IOTICE OF
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date	6. ☐ Interview S Paper No. 8), 7. ☐ Examiner's	oformal Patent Application (PTC) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allo Ronald W. Leja Primary Examiner Art Unit 2836	

Application/Control Number: 10/638,402

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The following is an Examiner's Statement of Reasons for Allowance: The Prior Art of Record discloses the use of PTC thermistors for overheat protection of semiconductor switching elements. Odaohhara et al. (US 2002/0021539) discuss the importance of offering hysteresis in the switching on/off of the associated circuitry. Souri et al. (6,181,541) teach the use of multiple PTC thermistors in the protection of a semiconductor switching element. However, the Prior Art of Record does not disclose nor suggest the claimed combination of an overheat protection circuit found within Independent Claim 1, which includes first and second PTC thermistors thermally coupled to the same temperature detection portion and used with a control element for controlling a semiconductor switching element. The first PTC thermistor changes resistance in response to sensed temperature and allows transition the operating-mode of the semiconductor switching element from a first conductive operation to an interrupt operation and the second PTC thermistor changes resistance in response to sensed temperature and allows the return of the operating-mode of the semiconductor switching element from the interrupt operation to the conductive operation at a return temperature which is lower than the interrupt temperature.

Any comments considered necessary by Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald W. Leja whose telephone number is (571)272-2053. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571)272-2800. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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